RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations

OCT 10 1995

27 September 1995

Mr. Chip Harris
Petroleum Equipment & Service
5212 W. Market St.
Greensboro, North Carolina 27409

RE: Tank Closure Report
Randy Overman Residence
5010 Hooper Road
McCleansville, NC

Dear Mr. Harris:

In accordance with your request, Research & Analytical Laboratories, Inc. (RAL) personnel inspected the above site where the removal of one 500 gal. gasoline underground storage tank (UST) was accomplished by your personnel. On 29 August 1995, RAL collected two soil samples from the gasoline tank excavation at the locations most likely to be contaminated. Additionally, one soil sample was composited from the soil stockpile removed from the excavation. This correspondence is intended to document the tank closure activities in accordance with State requirements.

MAPS/DRAWINGS

A base map, showing relevant physical features such as roads, buildings, UST's, etc., (i.e., Site Plan) and a plan view of the UST locations showing tank orientation, sample locations, etc. (i.e., Sample Location Plan) is enclosed. Additionally, photos of the site are enclosed.

DESCRIPTION OF SOIL SAMPLING POINTS AND PROCEDURES

Samples 247517 and 247518 were collected on 29 August 1995 from the floor of the gasoline tank excavation directly below the ends of the former tank. The floor of the excavation was approximately 5'-6" below surrounding grade and the samples were collected at about one foot below that point.

At the time the tank was removed, several small (1/8") holes were observed around the top of the tank and at least one hole was noted near the midpoint of the tank. Therefore, sample 247519 was composited from the stockpile of soil removed from the tank excavation in order to determine if it was contaminated and to provide information relative to proper disposal options.

All samples were collected with a thin walled, hand held coring device. The samples were placed in 4 ounce glass containers and packed tightly in the jars with a stainless steel spatula. The jars were then sealed with foil and screw caps, placed in a cooler with ice, and transported to our laboratory. The samples were delivered to the laboratory within twenty-four hours of the time they were collected.

All sampling devices were decontaminated between samples according to the following procedure:

1. Washed with nonphosphate detergent and water.
2. Tap water rinse.
3. Organic free deionized water rinse.
4. Isopropyl alcohol rinse.
5. Organic free deionized water rinse.
6. Air dry.
7. Wrapped in aluminum foil.

ANALYTICAL RESULTS

The results of the analyses for the soil samples are shown on the enclosed drawing. The certified laboratory report and chain of custody record for the samples are also enclosed with this report.

The analytical results for the samples collected from the gasoline tank excavation and the composite sample collected from the soil stockpile were all below detection limits for TPH as gasoline (EPA Method 5030). The concentrations identified indicated that the soil at the locations sampled is below the clean up levels as specified by the North Carolina Department of Environment, Health, and Natural Resources in the publication entitled Groundwater Section Guidelines for the Investigation and Remediation of Soils and Groundwater, dated March 1993, revised June 1993.

Based on the analytical data and our field observations, it does not appear that any further action is required at this site.

RECOMMENDED SUBMITTALS

This report should be submitted, along with a completed form GW/UST-2, to the Groundwater Section at the DEM regional office in Winston-Salem. Other information which you should provide in the submittal to DEM includes the following:

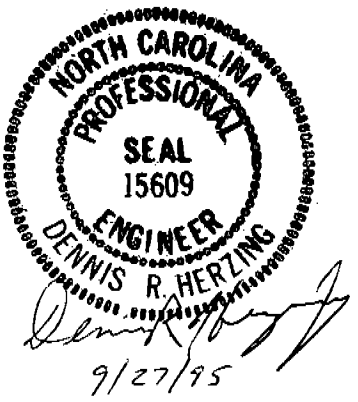
1. Confirmation of final disposition of the tank and any residual product removed from it.

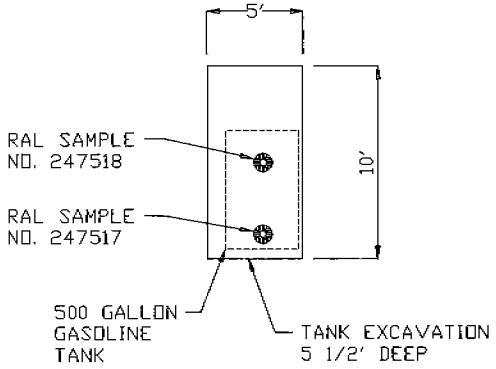
If you have any questions concerning this report, or if RAL may be of further assistance in any way, please feel free to call.

Very truly yours,
Research & Analytical Laboratories, Inc.

Dennis R. Herzing, P.E.
Director of Engineering

cc: J. Cheshire
D. Hodge

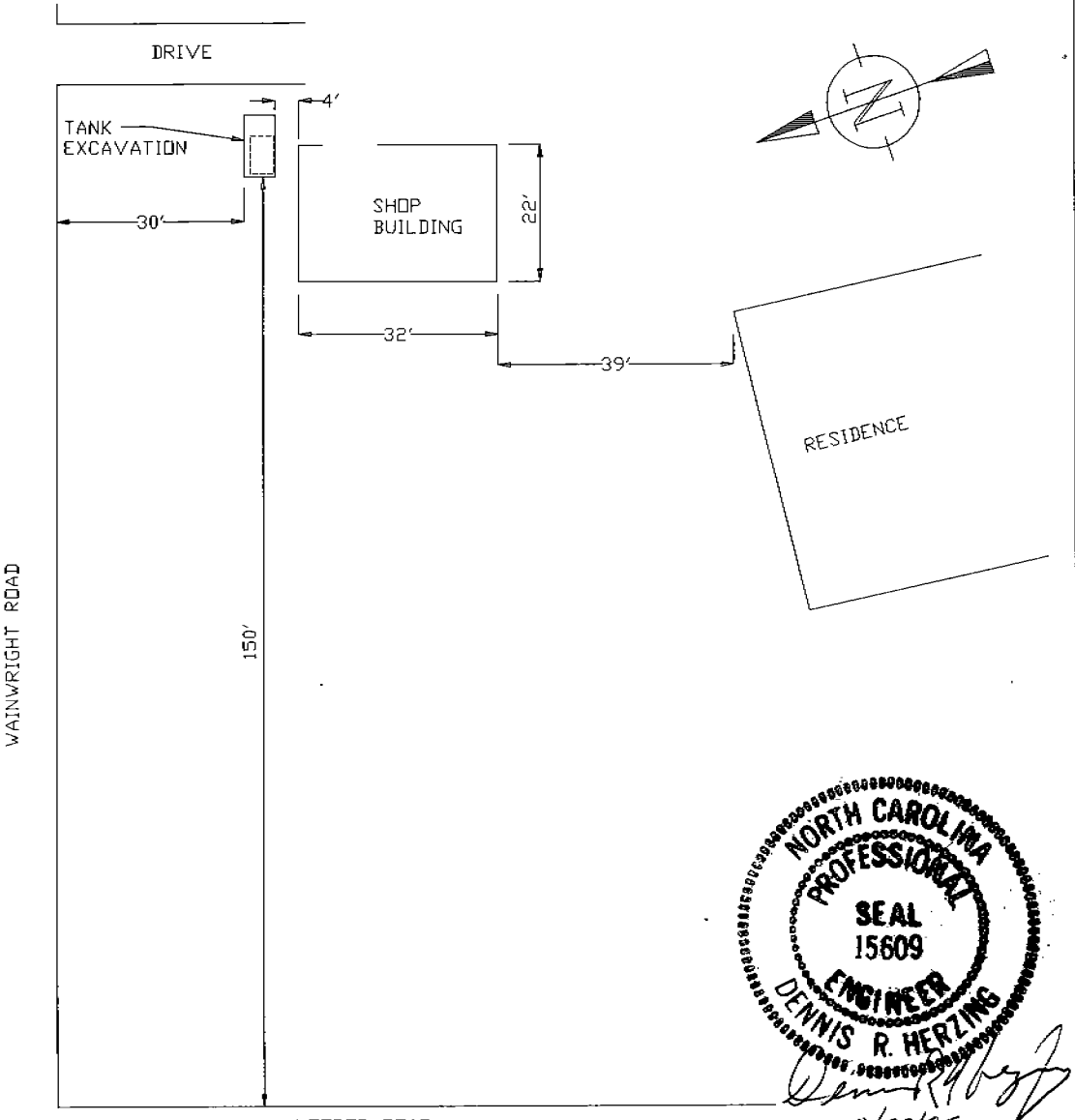




NOTE: RAL SAMPLE NO. 247519 WAS COMPOSITED FROM THE STOCKPILE OF SOIL REMOVED FROM THE EXCAVATION.

SAMPLE LOCATION PLAN

SCALE: 1"=10'



NORTH CAROLINA PROFESSIONAL SEAL 15609 ENGINEER DENNIS R. HERZING

9/27/95

SITE PLAN

SCALE: 1"=30'

ANALYTICAL RESULTS

RAL SAMPLE NO.	EPA METHOD	RESULTS (PPM)
247517	5030	<10
247518	5030	<10
247519	5030	<10

EPA METHOD 5030 = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
PPM = PARTS PER MILLION
< = LESS THAN OR BELOW DETECTION LIMITS
SAMPLE DATE 29 AUGUST 1995

RESEARCH & ANALYTICAL LABORATORIES, INC.
106 SHORT STREET
PO BOX 473
KERNERSVILLE, NORTH CAROLINA
910-996-2841

UNDERGROUND TANK REMOVAL
RANDY OVERMAN RESIDENCE
5010 HOOPER RD., McCLEANSVILLE, NC
A PETROLEUM EQUIPMENT & SERVICE, INC. PROJECT

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS. SIDNEY L. CHAMPION NC #34 DIRECTOR CERTIFIED ANALYSIS

14 September 1995

Petroleum Equipment Service, Inc.
5212 W. Market St.
Greensboro, North Carolina 27409

Attention: Chip Harris

Project Number: N/A
Project Name: Overman Property

Sample Number	Date Taken	Time (hrs)	Station Location	RAL Sample#	EPA* Method	Results (ppm)
N/A	8/29/95	1320	Pit - North	247517	5030	<10
N/A	8/29/95	1325	Pit - South	247518	5030	<10
N/A	8/29/95	1345	Stockpile	247519	5030	<10

EPA Method 5030 = Total Petroleum Hydrocarbons as Gasoline
ppm = parts per million
N/A = Not Available

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations
Phone (910) 996-2841

CHAIN OF CUSTODY RECORD

JOB NO.

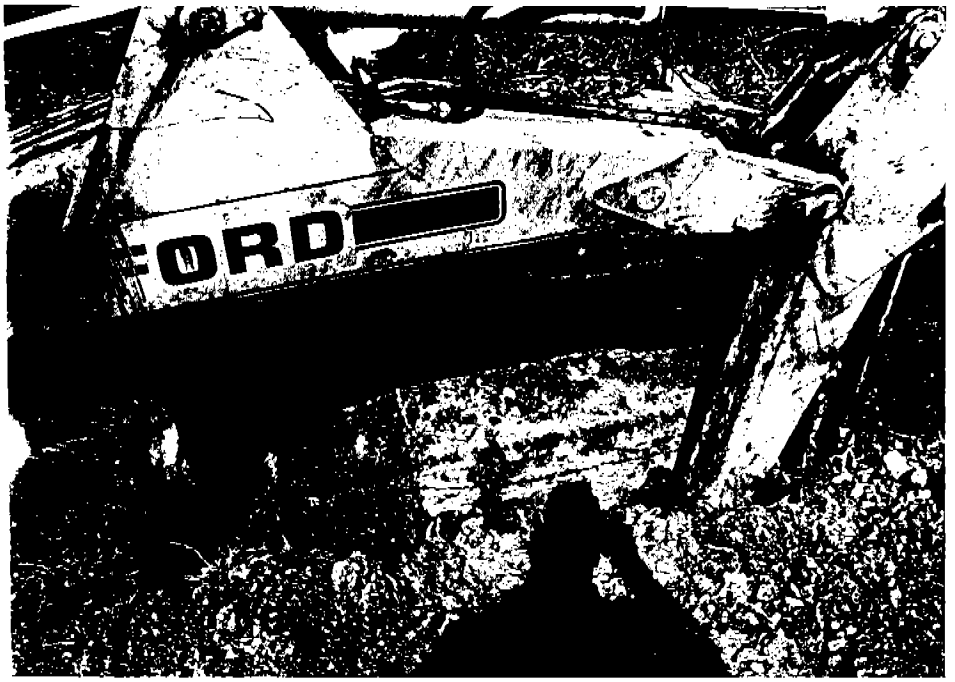
PROJECT NAME: Petroleum Equipment & Service
Overman Property

SAMPLERS (SIGNATURE): Dennis J. Hodge

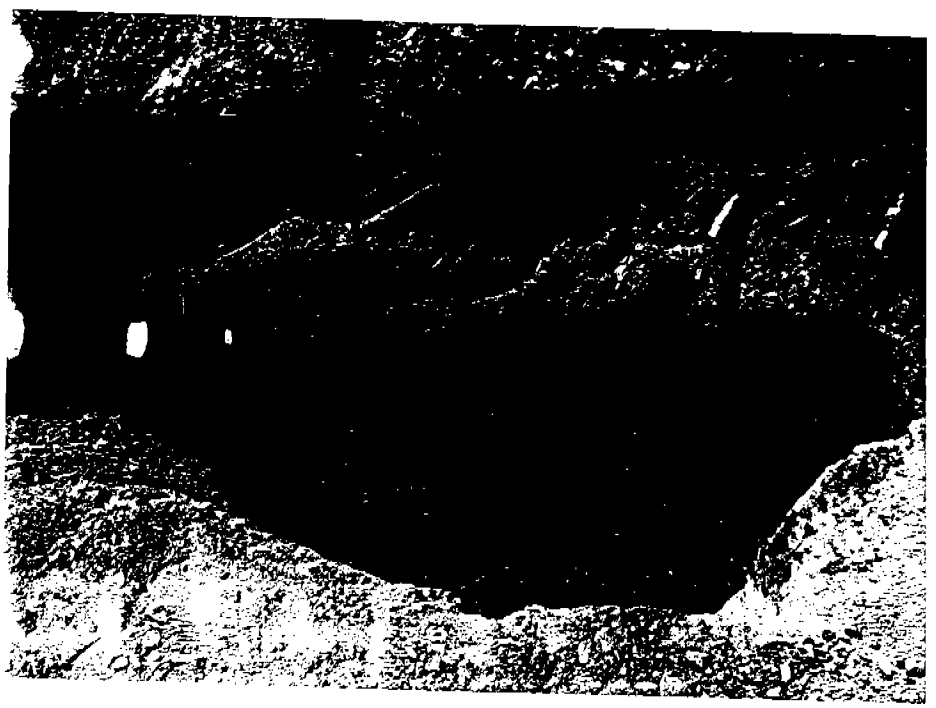
SAMPLE NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	WATER/WASTEWATER: 2L G (BNA, Herb./Pest.)	2 40ml Vials (VOA)	250ml G (TOX)	250ml P (TOC)	1L P,G (BOD, TSS, Unpreserved, etc.)	1L G (Phenol, Oil & Grease)	1L P,G (COD, N,P)	1L P,G (Metals, Hardness)	1L P,G (CYANIDE)	Sterile P,G (Coliform)	MISC.: 4 oz. Glass	REQUESTED ANALYSIS
247517	8-29-95	1320		X	Pit - North	1											1	5030
518	8-29-95	1325		X	Pit - South	1											1	5030
519	8-29-95	1345		X	Stockpile	4											4	5030 *

RELINQUISHED BY	DATE/TIME	RECEIVED BY
	8/29/95 1604	
RELINQUISHED BY	DATE/TIME	RECEIVED BY

REMARKS: * Composite into 1 sample



Overman Property
Tank In Pit



Overman Property
South Side Pit

Overman Property
North Side

Overman Property
Bottom of Pit

Overman Property
Bottom of Pit